

INTERNATIONAL SEARCH REPORT

10/527877
Rec'd PCT/ATG
International application No.
PCT/03/01453
MAR 2005

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B01D 53/50, B01D 53/83, B01F 13/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B01D, B01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| A | WO 9616722 A1 (ABB FLÄKT AB), 6 June 1996 (06.06.96) -- | 1-17 |
| A | WO 9616727 A1 (ABB FLÄKT AB), 6 June 1996 (06.06.96) -- | 13-15 |
| A | US 4795619 A (BERNARD J. LERNER), 3 January 1989 (03.01.89) -- | 1-17 |
| A | EP 0882490 A1 (ALOIS SCHEUCH GESELLSCHAFT M.B.H.), 9 December 1998 (09.12.98) -- | 1-17 |

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

5 December 2003

10-12-2003

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| A | US 6290921 B1 (REIJO KUIVALAINEN ET AL), 18 Sept 2001 (18.09.01) ----- | 1-17 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

06/09/03

International application No.

PCT/SE 03/01453

| Patent document cited in search report | | | Publication date | Patent family member(s) | | Publication date |
|--|---------|----|------------------|-------------------------|--------------|------------------|
| WO | 9616722 | A1 | 06/06/96 | AU | 692014 B | 28/05/98 |
| | | | | AU | 4126496 A | 19/06/96 |
| | | | | BR | 9509831 A | 30/09/97 |
| | | | | CA | 2205995 A | 06/06/96 |
| | | | | CN | 1080137 B | 06/03/02 |
| | | | | CN | 1167450 A | 10/12/97 |
| | | | | CZ | 9701574 A | 12/11/97 |
| | | | | EE | 4049 B | 16/06/03 |
| | | | | EE | 9700215 A | 16/02/98 |
| | | | | EP | 0804273 A | 05/11/97 |
| | | | | FI | 972233 A | 27/05/97 |
| | | | | HU | 77637 A | 29/06/98 |
| | | | | HU | 220402 B | 28/01/02 |
| | | | | JP | 10509914 T | 29/09/98 |
| | | | | PL | 320426 A | 29/09/97 |
| | | | | RO | 115421 A,B | 28/02/00 |
| | | | | RU | 2147919 C | 27/04/00 |
| | | | | SE | 504440 C | 10/02/97 |
| | | | | SE | 9404105 A | 29/05/96 |
| | | | | SI | 9520141 A | 31/10/97 |
| | | | | SK | 66197 A | 08/10/97 |
| | | | | ZA | 9509876 A | 15/07/96 |
| WO | 9616727 | A1 | 06/06/96 | AT | 212875 T | 15/02/02 |
| | | | | AU | 699500 B | 03/12/98 |
| | | | | AU | 4126296 A | 19/06/96 |
| | | | | BR | 9509828 A | 30/09/97 |
| | | | | CA | 2205059 A | 06/06/96 |
| | | | | CN | 1076980 B | 02/01/02 |
| | | | | CN | 1166793 A | 03/12/97 |
| | | | | CZ | 287812 B | 14/02/01 |
| | | | | CZ | 9701573 A | 17/12/97 |
| | | | | DE | 69525370 D,T | 13/03/03 |
| | | | | DK | 794830 T | 29/04/02 |
| | | | | EE | 9700119 A | 15/12/97 |
| | | | | EP | 0794830 A,B | 17/09/97 |
| | | | | ES | 2172602 T | 01/10/02 |
| | | | | FI | 972232 A | 27/05/97 |
| | | | | HU | 77639 A | 29/06/98 |
| | | | | HU | 221802 B | 28/01/03 |
| | | | | JP | 10510204 T | 06/10/98 |
| | | | | MD | 1228 F | 00/00/00 |
| | | | | PL | 178051 B | 29/02/00 |
| | | | | PL | 320348 A | 29/09/97 |
| | | | | PT | 794830 T | 31/07/02 |
| | | | | RO | 115424 A,B | 28/02/00 |
| | | | | RU | 2137535 C | 20/09/99 |
| | | | | SE | 503674 C | 29/07/96 |
| | | | | SE | 9404104 A | 29/05/96 |
| | | | | SI | 9520142 A | 31/12/97 |
| | | | | SK | 66097 A | 08/10/97 |
| | | | | SK | 282040 B | 08/10/01 |
| | | | | TR | 960803 A | 00/00/00 |
| | | | | US | 5887973 A | 30/03/99 |
| | | | | ZA | 9509875 A | 30/05/96 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

06/09/03

International application No.

PCT/US03/01453

| Patent document cited in search report | | | Publication date | Patent family member(s) | | Publication date |
|---|---------|----|---------------------|----------------------------|------------|---------------------|
| US | 4795619 | A | 03/01/89 | NONE | | |
| ----- | | | | | | |
| EP | 0882490 | A1 | 09/12/98 | AT | 96197 A | 15/05/98 |
| | | | | AT | 404565 B | 28/12/98 |
| | | | | CZ | 286721 B | 14/06/00 |
| | | | | CZ | 9800209 A | 16/12/98 |
| | | | | HU | 9801284 A | 28/06/99 |
| | | | | PL | 326404 A | 07/12/98 |
| ----- | | | | | | |
| US | 6290921 | B1 | 18/09/01 | AU | 1150501 A | 14/05/01 |
| | | | | CA | 2389180 A | 10/05/01 |
| | | | | CN | 1414876 T | 30/04/03 |
| | | | | CZ | 20021558 A | 15/01/03 |
| | | | | EP | 1239941 A | 18/09/02 |
| | | | | WO | 0132296 A | 10/05/01 |
| ----- | | | | | | |